

MATERIAL SAFETY DATA SHEET

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Product and Company Information

Product Name: Dityrosine (DT) ELISA
Product Number: KDT-010/E
Manufacture: Japan Institute for the Control of Aging (JaICA),
Nikken SEIL Corporation
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Composition / Information on Ingredient

Product Name	CAS Number
Dityrosine ELISA	None

Kit components:

- | | |
|-------------------------------|---------------------------------------|
| 1) DT Microtiter Plate: | Pre-coated with DT |
| 2) Primary antibody: | Mouse monoclonal antibody |
| 3) Secondary antibody: | HRP-conjugated anti mouse antibody. |
| 4) Secondary antibody buffer: | Phosphate buffered saline. |
| 5) TMB substrate: | 3,3',5,5'-tetramethylbenzidine (TMB). |
| 6) Stop Solution: | 1.96% Sulfuric acid. |
| 7) Washing Buffer (5X): | Phosphate buffered saline. |
| 8) DT Standards: | 0.05 – 12 µmol/L |
| 9) Plate Seal. | |

The hazards identified with these products are those associated with following substances.

Name	Concentration
Sulfuric acid (CAS#7664-93-9)	1.96% Stop solution (12 mL)

Hazards Identification

GHS label



Danger

HMIS Rating

Health:

Flammability:

Reactivity:

NFPA Rating

Health:

Flammability:

Reactivity:

First Aid Measures

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious.

Call a physician immediately.

Inhalation Exposure:

If inhaled, remove to fresh air. If not breathing, give artificial respiration.

Call a physician immediately.

Dermal Exposure:

In case of skin exposure, wash out with water for at least 15 minutes.

Remove contaminated clothing. Call a physician immediately.

Eye Exposure:

In case of eye exposure, wash out with water for at least 15 minutes.

Call a physician immediately.

Fire Fighting Measures

Explosion Hazards: N/A

Flash Point: N/A

Autoignition Temperature: N/A

Flammability: N/A

Extinguishing Media: Water spray, carbon dioxide or dry chemical powder.

Firefighting: Wear self-contained breathing apparatus and protective clothing to prevent with skin and eyes.

Accidental Release Measures

Procedure of Personal Precautions:

Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

Clean-Up Procedure:

Spilled material should be wiped up.

Handling and Storage

Store at 2-8 degree C.

Exposure Controls

Maximum allowable concentration at the work station:

Sulfuric acid (CAS#7664-93-9) 1 mg/m³

Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory: respirator.

Hand: rubber gloves.

Eye: goggles:

General Hygiene Measures:

Wash thoroughly after handling. Wash contaminated clothing before re-use.

Stability and Reactivity

Stability: Stable.

Materials to Avoid: N/A.

Hazardous Decomposition Products: Nature of decomposition products is not known.

Toxicological Information

Acute toxicity:

Sulfuric acid (CAS#7664-93-9)	Rat	LD ₅₀ (Oral)	2,140 mg/kg
	Rat	LC ₅₀ (Inhalation)	510 mg/m ³
	Mouse	LC ₅₀ (Inhalation)	320 mg/m ³
	Human	TCLo (Inhalation)	1 mg/m ³ 3 hours

Skin contact: May cause skin irritation.

Eye contact:

Sulfuric acid (CAS#7664-93-9) Rabbit 250 µg Severe irritation.

Inhalation: May cause irritation at mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Ecological Information

N/A

Disposal Information

Contact a professional waste disposal service to dispose this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all environmental regulations.

Transport Information

This substance is considered to be Non-Hazardous for transport.

This substance is considered to be Non-Hazardous for air transport.

Regulatory Information

United States Classification and Label Text:

United States Regulatory Information:

SARA Listed: No.

Other Information

This substance is For Research Use Only.

Not for drug, diagnostic, nor other uses.